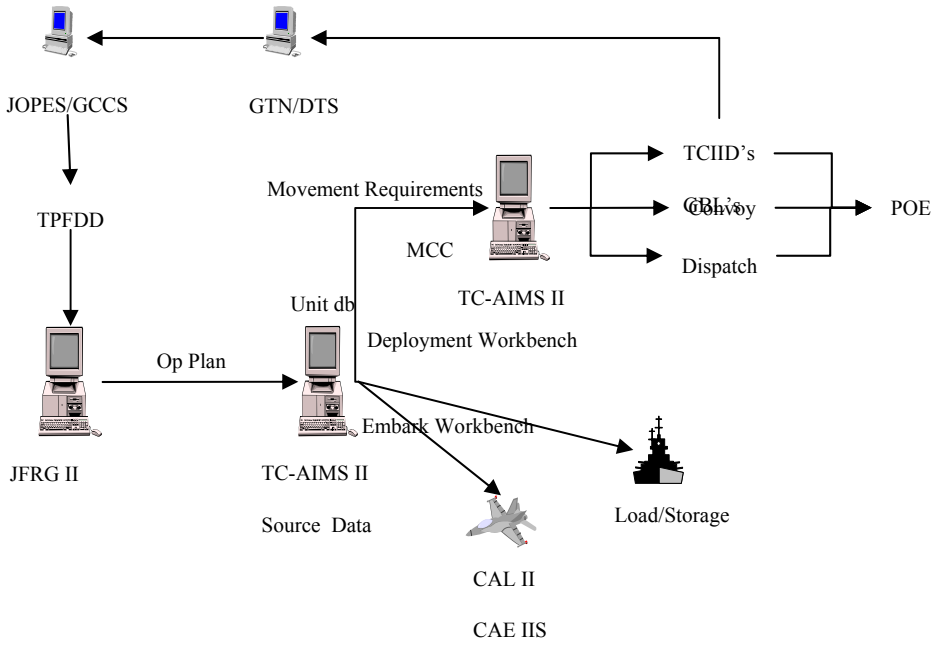
ANNEX G
U.S. MARINE CORPS
INTEGRATED LOGISTICS SUPPORT (ILS)
IMPLEMENTATION PLAN

1. MARINE CORPS CONCEPT OF OPERATIONS (CONOPS) FOR USE OF TRANSPORTATION COORDINATOR'S-AUTOMATED INFORMATION FOR MOVEMENT SYSTEM II (TC-AIMS II)

1.1 INTRODUCTION. TC-AIMS II will provide the Marine Corps with a state-of-the-art, integrated, and deployable Automated Information System (AIS) that supports unit, personnel, vehicle, and cargo movements worldwide. TC-AIMS II is a scaleable system that provides support for all garrison or field transportation functions in the Continental United States (CONUS) or Outside Continental United States (OCONUS). It provides logistical management tools for operations in peace (to include training exercises) or war, and Operations Other Than War (OOTW). This system will enhance and increase the capability of Marine Air-Ground Task Force (MAGTF) planners and operators to efficiently task-organize, deploy, and sustain a MAGTF during training or combat operations. It will decrease the planning and mobilization time necessary to support Commander in Chief mission priorities and objectives. TC-AIMS II is a force multiplier that will improve Marine Corps responsiveness for unit and personnel movement, and simplify Installation Transportation Officer (ITO)/Traffic Management Officer (TMO) planning for cargo movement worldwide. The following figure shows the basic concept of operations.

Concept of Operations - Unit Move



1.2 OVERVIEW. TC-AIMS II addresses critical shortfalls in cargo and personnel movement in support of Department of Defense (DoD) requirements. Further, TC-AIMS II responds to fiscal year (FY)96-99 Defense guidance that calls for joint support systems to provide "rapid strategic mobility support and sustainment capabilities." TC-AIMS II will improve transportation efficiency and information flow. Transportation efficiency will improve because standard transportation information will be captured only once, at the source. This will reduce the time needed to prepare required documentation, provide source In-Transit Visibility (ITV) and force movement information. TC-AIMS II is being developed and administrated as a Joint migration information system.

a. The system will incorporate all the capabilities that currently exist in military and DoD systems into a single integrated AIS platform that will be capable of operating in garrison, or when deployed. It will also support the DoD Mission Areas of Mobility and sustainment during all phases of military operations including Reception Staging Onward Movement and Integration (RSO&I).

b. TC-AIMS II is being developed in consonance with DoD Joint Chiefs of Staff (JCS) requirements and the Commandant's Planning guidance. The Marine Corps' strategic and operational environment of the 21st century, Operational Maneuver from the Sea (OMFTS), impacts doctrine, organization, training and equipment strategies. The TC-AIMS II support of OMFTS is innovative and reflects the global changes that the Marine Corps must adapt to in current mission scenarios. The TC-AIMS II will institutionalize core processes and capitalize on Commercial off-the-Shelf (COTS)/Government off-the-Shelf products to shape a Corps whose combat assets are versatile, flexible, agile, and adaptable to a wide range of operational commitments.

c. The TC-AIMS II will provide the capability to automate unit movement and ITO/TMO planning and execution whether in-garrison or a deployed/field operational environment. It will also provide an automated information system for movement control and allocation of common user transportation assets. It will provide critical information to the Global Transportation Network (GTN) and will operate within the Global Combat Support System environment as well as Command and Control (C2) systems at various levels of command.

d. Primary interfaces will be bi-directional from the Marine Corps Asset Tracking for Logistics and Supply Systems II+ (ATLASS II+), the Joint Force Requirements Generator (JFRG) II. TC-AIMS II provides a multi-functional operational capability to support daily transportation requirements, to sustain deployment related planning activities and to plan transportation and deployment execution requirements. The system will also have the capability to provide AIS management support to deployed/field units requiring Deployment, RSO&I, Employment, Sustainment or Redeployment activities. The system will also support in-theater movement control through the automated capability to forecast the arrival of personnel, cargo, and containerized shipments. This functionality will provide command visibility of high interest cargo within the area of operations.

1.3 TC-AIMS II USERS. TC-AIMS II is designed to allow units and transportation agencies to use a common system to manage and coordinate transportation, and pass information to Logistic

Automated Information Systems (LOGAIS) and joint transportation systems. It brings together two communities: operational unit level S-4s, MTOs, and Movement Control Centers (MCC); and Command Element (CE) G-4s, traffic management and Base Motor Transport agencies. The target user audience for TC-AIMS II includes the following:

TRANSPORTATION USERS/COORDINATORS	TRANSPORTATION PROVIDERS
Unit S-4s, MTOs	I, II MEF and MARFORRES Motor Transportation Battalion, Force Service Support Group (FSSG), III MEF Support Battalion, FSSG
Division, Wing, FSSG, MEF and MARFORRES G-4s	Truck Company, Headquarters Battalion, Marine Division
Unit, Logistics, and Force Movement Control Centers (UMCC, LMCC, FMCC)	Landing Support Battalion, Engineer Support Battalion
CSS Operator Sections	Marine Wing Support Group, Base Motor Transport
Base Transportation Support Components	Base TMO U.S. Transportation Component Commands Commercial Carriers

1.4 APPLICABLE REFERENCES. The overarching concept of operations for TC-AIMS II follows the 1996 DoD ITV Implementation Plan. The following Marine Corps Directives describe in detail the deployment and sustainment processes and the information systems that support those processes:

- Marine Corps Planner's Manual, MCO P3000.18
- Marine Corps Deployment Procedures Manual (Draft), MCO P3120.15
- Marine Corps Transportation Manual, MCO P
- Defense Transportation Regulation, DoD 4500.9R

2. DEPLOYMENT PLAN

2.1 FIELDING STRATEGY. Fielding will consist of two phases. Upon completion of the Milestone IIIA decision, Phase I fielding will commence with the Marine Expeditionary Force (MEF) CEs and the Pilot Test Site, which will be fielded horizontally. Upon completion of the Milestone IIIC decision, Phase II Fielding will begin with the Marine Corps Schools and the Blount Island Command, followed by vertical fielding to individual units within each MEF.

a. When released, TC-AIMS II will conform to the standard Material Release Process (identified in Technical Manual 4400-15/1) to ensure the system operates as designed and is logistically supportable before being fielded to the operating forces. This includes ensuring that personnel, training, publications, maintenance, testing, and funding issues have been resolved or provisions for their resolution have been made prior to material release.

b. A limited fielding process will commence after the Milestone IIIA decision. Fielding is supported by an independent program that includes logistics assessments that result in an Acquisition Decision Memorandum (ADM), which includes exit criteria for the fielding decision. These exit criteria form the basis for subsequent material release and fielding actions in order to prepare for a "formal" Fielding Decision. The Fielding Decision is documented by a Fielding Decision Memorandum, which then becomes the basis for all subsequent material release and fielding actions.

c. To ensure that Marine Corps-wide coordination is in place for transportation and transportability issues, Phase I fielding of TC-AIMS II will be to the MEF CE only.

d. Upon completion of the Milestone IIIC decision, Phase II fielding will begin with the Marine Corps Combat Service Support School (MCCSSS), Camp Johnson, NC, followed by individual units within each MEF.

e. Hardware procurement and architecture requirements are provided in the Joint Program Management Office (JPMO) Integrated Logistics Support Plan (ILSP). Servers, personal computers and laptops will be procured through existing contracts under the control of the Program Manager (PM) for Information Technology (IT) Marine Corps Systems Command (MARCORSYSCOM).

f. Full Operational Capability (FOC) for TC-AIMS II is to be determined (TBD).

2.2 USER LOCATIONS AND SYSTEMS (MARINE CORPS USER POPULATIONS BY LOCATION (REGIONAL)). For user location and systems, refer to tab 1.

2.3 FIELDING SEQUENCE. For fielding sequence, refer to tab 2.

2.4 PERSONNEL TRAINING. For personnel training, refer to tab 3.

3. PROCUREMENT PLAN FOR HARDWARE AND OPERATING SOFTWARE

3.1 HARDWARE PROCUREMENT. The Program Office, via PM IT, will coordinate the procurement of required hardware through existing Marine Corps Common Hardware Suites (MCHS).

3.2 OPERATING SOFTWARE. Procurement of required operating software would be coordinated through PM IT as part of the hardware purchase.

3.2.1 Installation of Operating Software. The hardware provider, under the coordination of PM IT, will install the operating software on system hardware.

4. MAINTENANCE PLAN FOR HARDWARE AND OPERATING SOFTWARE

4.1 HARDWARE MAINTENANCE SUPPORT. The MCHS maintenance philosophy is based on rapid restoration of the end item. Contractor maintenance services will be provided via

Contractor Logistics Support (CLS) contracts. The CLS is intended to substantially increase the level of logistics support for COTS computer systems. This is achieved by providing technical assistance for the repair or replacement of defective hardware. Maintenance procedures for MCHS equipment provided to support TC-AIMS II is based upon warranty maintenance. The automatic data processing equipment to be used in support of TC-AIMS II will consist of computers and peripherals. This equipment will be procured with a manufacturer's extended service warranty to cover defects in materiel and workmanship to include normal operating failures as well as any inherent failures. Owning units will be required to comply with equipment warranty provisions to avoid incurring maintenance charges for routine repairs. First echelon maintenance is the responsibility of the users. The warranty contractor will perform all other maintenance. Detailed repair procedures will be developed through the CLS contract.

a. Organizational Level Maintenance. Equipment operators (users) perform this level of maintenance at the using unit.

(1) Operators. Maintaining a clean, complete, and fully operational system is the responsibility of the equipment operator. For MCHS products, applicable preventive maintenance procedures are described in commercial documentation accompanying the equipment. Immediately prior to system installation or startup, the operator must inspect each system component for serviceability. The system operator will immediately report any system failure or breakdown to the System Administrator (SA).

(2) Maintainers. All maintenance is provided through CLS.

b. Depot Level Maintenance. CLS performs this level of maintenance.

c. Contractor Logistics Support. The objective of CLS is to make available authorized warranty repairs and logistics support services (via specific contract line item numbers). The types and extent of services is limited by the terms and conditions of a particular contract, available function, and program requirements. For MCHS products, several contracts are used to obtain CLS for Marine Corps-wide application. The Commander, Marine Corps Logistics Bases (MARCORLOGBASES) (Code 843-3), establishes, manages, and coordinates CLS contracts. All hardware repairs or replacement will be performed through the CLS contract.

4.2 OPERATING SOFTWARE MAINTENANCE SUPPORT. Operating software will be maintained through the manufacturer's warranty support and manufacturer's online software support systems.

5. SUPPLY SUPPORT PLAN FOR HARDWARE AND OPERATING SOFTWARE

5.1 HARDWARE SUPPLY SUPPORT. The supply support objective for MCHS is to provide all logistic support through contracted CLS. CLS will continue throughout the life cycle of the system. This includes provisioning as well as replacement or replenishment supply support.

a. Replacement Hardware and Hardware Components. Under warranty circumstances, the CLS provider is tasked to provide replacement hardware or hardware components

b. Deployment Spares Packages. CLS providers will be tasked with the responsibility of maintaining deployment spares packages. Package makeup will be determined jointly by the contractor and the deploying organization based on contractor usage data. The packages will be filled by contractor owned items as specified by the applicable CLS contract. Contractor spares packages will be used only for OCONUS deployments.

c. CLS Services Under Special Conditions ("War Clause"). CLS providers are responsible for performing all contracted ILS functions under conditions of hostilities, internal strife, rioting, civil disturbance, or perils of any type that could endanger the welfare and security of U.S. Forces. At the discretion of the local commander, contractors may participate, at no cost to the Government, in all local training exercises relating to Government preparation for any of the above incidents.

5.2 SOFTWARE SUPPLY SUPPORT. Operating software supply support will be accomplished by CLS.

6. TECHNICAL MANUALS AND USER MANUALS FOR HARDWARE AND OPERATING SOFTWARE

6.1 HARDWARE. A separate hardware technical manual will not be developed. The availability of technical data for TC-AIMS II COTS/Non-developmental item (NDI) hardware will vary depending on the equipment purchased by the supplier and the specific Marine Corps requirements. Commercial user documentation (COTS manuals) will be provided for all system hardware. The PM for Information Systems (IS), MARCORSYSCOM, in coordination with PM IT, will ensure that all system hardware technical requirements are adequately covered in the commercial user documentation.

6.2 OPERATING SOFTWARE. Commercial software documentation (user manuals) will be provided for the operating system software package in the software purchase agreement. JPMO will develop and deliver electronic TC-AIMS II Application Software Manuals for the user/operator/system administrator.

7. MILITARY AND CIVILIAN OCCUPATIONAL SPECIALTIES AND THE QUALITATIVE AND QUANTITATIVE PERSONNEL REQUIREMENTS FOR UNIT MOVEMENT AND ITO/TMO FUNCTIONS

7.1 MILITARY AND CIVILIAN OCCUPATIONAL SPECIALTIES. The operator/unit maintainers, trainers, supervisors and managers, and system support personnel for the system will be comprised of officer, warrant officer, enlisted, civilian, and foreign national personnel. This represents both active and reserve component forces. TC-AIMS II will be fielded as a General-Purpose User (GPU) system. TC-AIMS II users will be from every post and organization throughout the Marine Corps. The following is a listing of users by duty title and Military Occupational Specialty (MOS):

- Traffic Management Officer - 3102
- Logistics Officer - 0402

- Embarkation/Strategic Mobility Officer - 0430
- Logistics/Embarkation Specialist - 0431/0491
- Landing Support Specialist - 0481 (BOG, POG, A/DACG, SLE, ALE, RHOG, ASSOGs)
- Motor Transport Operations Chief - 3537 (LMCC, FMCC, Unit Motor Pools, S-3/G-3s)
- Motor Transport Dispatcher - 3531
- Traffic Management Officer - 3102
- Traffic Management Specialist - 3112
- MAGTF Plans and Operations Officer/Specialist – 0502/9909/9919
- Traffic Management Specialist (WG04-GS09)
- Database Administrator – (TBD) This is an additional duty with no specific MOS requirement. Structure may tentatively come from the 0411 Occupational Field (OccFld).
- System Administrator – (TBD) This is an additional duty with no specific MOS requirement. Structure may tentatively come from the 4002/4066/6002 OccFld.

7.2 QUALITATIVE AND QUANTITATIVE PERSONNEL REQUIREMENTS FOR ANNUAL TRAINING. The following tables show tentative estimates for annual training requirements. Final training requirements will be published in the Manpower and Training Plan.

MOS 0402 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
GROUND SUPPLY SCHOOL, MARINE CORPS BASE (MCB) CAMP LEJEUNE, NC					
M03LBB1	FY XX	FY XX	FY XX	FY XX	FY XX
0OE	67	67	67	67	67
0OF	2	2	2	2	2
1O	25	25	25	25	25
3EM	1	1	1	1	1
3OM	16	13	14	13	14
TOTAL	111	108	109	108	109
M03LBB1 Logistics Officer		0OE Active Officer - Entry Level 0OF Active Reserve Officer 1O Active Officer - Lateral Move 3EM Reserve Enlisted - MARFORRES 3OM Reserve Officer - MARFORRES			

MOS 0430 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
GROUND SUPPLY SCHOOL, MCB CAMP LEJEUNE, NC					
M03LAM1	FY XX	FY XX	FY XX	FY XX	FY XX
0E	90	90	90	90	90
0E3E	1	0	0	1	0
0W	19	15	14	14	14
3EM	25	27	25	27	26
TOTAL	135	132	129	132	130

MOS 0430 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)		
GROUND SUPPLY SCHOOL, MCB CAMP LEJEUNE, NC		
M03LAM1	Logistics Embarkation SNCO NCO	0OE Active Officer - Entry Level 0E3E Active Enlisted - MARFORRES 0W Active Officer - Warrant Officer 3EM Reserve Enlisted - MARFORRES

MOS 3102 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
U.S. ARMY TRANSPORTATION CENTER AND SCHOOL, FORT EUSTIS, VA					
A08BES1	FY XX	FY XX	FY XX	FY XX	FY XX
0O	2	2	2	2	2
0W	1	3	3	4	1
TOTAL	3	5	5	6	3
A08BES1	Installation Traffic Management	0O Active Officer - Entry Level 0W Active Officer - Warrant Officer			

MOS 0431 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
EWTGLANT, NAVAL AIR BASE (NAB) LITTLE CREEK, VA					
N0304H1	FY XX	FY XX	FY XX	FY XX	FY XX
0E3E	2	1	1	2	1
0EE	112	111	111	115	117
0EF	3	3	3	3	3
1E	14	17	17	17	17
2E	28	28	28	28	28
2E2	5	5	5	5	5
3EM	23	20	21	21	21
TOTAL	187	185	186	191	192
N0304H1	Basic Logistics Embarkation Specialist	0E3E Active Enlisted - MARFORRES 0EE Active Enlisted - Entry Level 0EF Active Reserve - Enlisted 1E Active Enlisted - Lateral Move 2E Reserve Enlisted - IADT 2E2 Reserve Enlisted - IIADT 3EM Reserve Enlisted - MARFORRES			

MOS 0431 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
EWTGPAC, NAB CORONADO, CA					
N3004H1	FY XX	FY XX	FY XX	FY XX	FY XX
0EE	112	111	111	115	117
0EF	3	3	3	3	3
1E	14	17	17	17	17
2E	28	28	28	28	28
2E2	5	5	5	5	5
3EM	17	16	16	16	17
TOTAL	179	180	180	184	187

N3004H1 Basic Logistics Embarkation Specialist

0EE Active Enlisted - Entry Level
0EF Active Reserve - Enlisted
1E Active Enlisted - Lateral Move
2E Reserve Enlisted - IADT
2E2 Reserve Enlisted - IIADT
3EM Reserve Enlisted - MARFORRES

MOS 0481 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
MARINE CORPS ENGINEER SCHOOL, MCB CAMP LEJEUNE, NC					
M0313I2	FY XX	FY XX	FY XX	FY XX	FY XX
0EE	180	177	178	185	188
1E	10	13	13	13	10
2E	64	64	64	64	64
2E2	6	6	6	6	6
TOTAL	260	260	261	268	271

M0313I2 Basic Landing Support Marine Course

0EE Active Enlisted - Entry Level
1E Active Enlisted - Lateral Move
2E Reserve Enlisted - IADT
2E2 Reserve Enlisted - IIADT

MOS 0481 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
MARINE CORPS ENGINEER SCHOOL, MCB CAMP LEJEUNE, NC					
M03LBH2	FY XX	FY XX	FY XX	FY XX	FY XX
3EM	13	12	13	14	14
TOTAL	13	12	13	14	14

M03LBH2 Reserve Landing Support Specialist

3EM Reserve Enlisted - MARFORRES

MOS 0491 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
GROUND SUPPLY SCHOOL, MCB CAMP LEJEUNE, NC					
M03LBC1	FY XX	FY XX	FY XX	FY XX	FY XX
0E	80	80	80	80	80
0E3E	5	4	4	5	4
0O3O	1	0	1	0	1
3EM	7	8	7	7	7
TOTAL	93	92	92	92	92
M03LBC1 Combat Service Support Chief			0E Active Enlisted - Primary MOS 0E3E Active Enlisted - MARFORRES 0O3O Active Officer - MARFORRES 3EM Reserve Enlisted - MARFORRES		

MOS 3112 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
U.S. ARMY SIGNAL SCHOOL, FORT GORDON, GA					
A08TNA1	FY XX	FY XX	FY XX	FY XX	FY XX
0EE	120	118	118	123	125
2E	17	17	17	17	17
2E2	1	1	1	1	1
3EM	4	5	4	5	4
TOTAL	142	141	140	146	147
A08TNA1 Traffic Management Coordinator			0EE Active Enlisted - Entry Level 2E Reserve Enlisted - IADT 2E2 Reserve Enlisted - IIADT 3EM Reserve Enlisted - MARFORRES		

MOS 3531 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
U.S. ARMY ENGINEER SCHOOL, FORT LEONARD WOOD, MO					
A1635X1	FY XX	FY XX	FY XX	FY XX	FY XX
0E3E	1	1	1	1	1
0EE	1960	1934	1939	2019	2043
0EF	8	8	8	8	8
1E	44	26	26	26	26
2E	483	483	483	483	483
2E2	54	54	54	54	54
3EM	150	147	145	144	145
TOTAL	2700	2653	2656	2735	2760
A1635X1 Basic Logistics Embarkation Specialist			0E3E Active Enlisted - MARFORRES 0EE Active Enlisted - Entry Level 0EF Active Reserve - Enlisted		

MOS 3531 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)
U.S. ARMY ENGINEER SCHOOL, FORT LEONARD WOOD, MO
1E Active Enlisted - Lateral Move 2E Reserve Enlisted - IADT 2E2 Reserve Enlisted - IIADT 3EM Reserve Enlisted - MARFORRES

MOS 3537 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
MOTOR TRANSPORT SCHOOL, MCB CAMP LEJEUNE, NC					
M0335F7	FY XX	FY XX	FY XX	FY XX	FY XX
0E3E	2	2	2	2	2
0E	145	145	145	145	145
0EF	2	2	2	2	2
3EM	39	34	38	34	38
TOTAL	188	183	187	183	187
M0335F7 Motor Transport SNCO			0E3E Active Enlisted - MARFORRES 0E Active Enlisted - Primary MOS 0EF Active Reserve - Enlisted 3EM Reserve Enlisted - MARFORRES		

MOS 9919 Annual Training Throughput Requirements (FY XX-FY XX Training Input Plan)					
EWTGLANT, NAB LITTLE CREEK, VA					
N03KAG1	FY XX	FY XX	FY XX	FY XX	FY XX
0EE	38	37	37	39	39
1E	13	9	9	9	9
TOTAL	51	46	46	48	48
N03KAG1 MAGTF Enlisted Planner Course			0EE Active Enlisted - Entry Level 1E Active Enlisted - Lateral Move		

8. INSTRUCTOR AND KEY PERSONNEL (IKP), SYSTEM AND DATABASE ADMINISTRATOR(S), AND USER TRAINING REQUIREMENTS

8.1 IKP TRAINING REQUIREMENTS. The contractor, through JPMO requirements, will provide IKP training. The Marine Corps fielding strategy envisions fielding TC-AIMS II in two increments.

a. Phase I IKP Training. Each MEF CE will have approximately six to eight users. IKP training will be conducted at each site during Phase I fielding. Those individuals designated as

"Key Personnel" will be tasked to attend the IKP training at their parent organization. It is anticipated that the total class size for each IKP session will be less than 15 students.

b. Phase II IKP Training. Phase II fielding will include upgrades and changes to the TC-AIMS II system. During Phase II fielding, it will be necessary to conduct IKP training for each organization as the system is fielded. This training will be conducted locally and will include all individuals designated as instructors for the New Equipment Training Team (NETT) and those individuals designated as "Key Personnel." Additionally, previously trained users will need to attend Phase II training for information on the system's increased capabilities. Instructors from MCCSSS and other schools, as required, will also attend Phase II IKP training.

8.2 SYSTEM AND DATABASE ADMINISTRATOR(S) TRAINING REQUIREMENTS

a. Phase I System and Database Administrator Training. Phase I fielding requirements are limited to two to four SAs and a TBD number of database administrators (DA) for each MEF CE. Due to the limited number of participants for administrator training the training will be held in a single location. One class each for SAs and DAs will fulfill the initial training requirements.

b. Phase II System and Database Administrator Training. Training for SAs and DAs will be conducted at a central facility for each MEF. During the planning stages for follow-on fielding, each organization will designate those individuals to be trained as SAs or DAs. Instructors from MCCSSS will attend the training provided at II MEF. The number of students for each of these classes has not been determined. Current estimates are two to three students for each server fielded for the SA class and an equal number for the DA class.

8.3 USER TRAINING REQUIREMENTS

a. Phase I Fielding User Training. The contractor will provide user training during the Phase I fielding of TC-AIMS II. This training will be conducted at each MEF CE as part of the Phase I fielding process. This training will consist of classroom lecture and hands on training. Training will be conducted in the training facilities set up for user training at each location.

b. Phase II Fielding User Training. Training for the majority of TC-AIMS II users will not be conducted until Phase II fielding begins. The NETT will provide Phase II user training at each location as the TC-AIMS II system is fielded. This training will consist of classroom lecture and hands on training. Training will be conducted in the training facilities set up for user training at each location.

8.4 TRAINING, TRAINING AIDS AND DEVICES, AND TRAINING SUPPORT. The contractor will provide all materials, manuals, training aids and devices used to support training for system users, SAs, and DAs.

a. The contractor will develop and implement various training documents, devices and aids. These training materials are essential to the continuation of TC-AIMS II training programs. Upon the commencement of initial and follow-on training, the contractor will provide all training materials as required. Those materials will include as a minimum:

- Context sensitive help features
- Computer based tutorials
- Electronic operator manuals
- Service unique training scenarios
- Training database
- Interactive compact disk – read only memory (CD-ROM) multimedia training programs for executives, supervisors and users
- Written training materials such as training syllabus, lesson outlines, lesson manuscripts and any other notes or training aids or devices used to present training

b. These training materials will be used by MCCSSS and other schools as required to develop training packages for the various courses that need to be modified to support TC-AIMS II. These same training materials will form the foundation of the Phase II user training conducted by the NETT.

9. SERVICE SCHOOL AND SUSTAINMENT TRAINING REQUIREMENTS

9.1 SERVICE SCHOOL TRAINING REQUIREMENTS

a. Refer to paragraph 7.2 for school locations.

b. Refer to paragraph 7.2 for course titles.

c. Course starting dates are TBD.

9.2 SUSTAINMENT TRAINING REQUIREMENTS

a. Training for Functional and Commodity Users. The user population for TC-AIMS II falls into two large groupings. The first are Functional Users, who receive formal school training on operating the TC-AIMS II and have cognizance over the movement management functions it supports. The TC-AIMS II Functional Users are primarily from OccFlds 03 (Traffic Management), 04 (Logistics), 35 (Motor Transport), 31 (Traffic Management), 05 and 99 (MAGTF Plans & Operations). The Functional Users support the second group of TC-AIMS II users, the Commodity User, who will interact with the TC-AIMS II AIS as necessary to accomplish transportation tasks. The Commodity Users consist of OccFlds 03, 04, 31, and 05/99. The amount of formal school training and topics covered by these users varies widely between OccFlds and by rank within OccFlds. Both groups consist of officers, Staff Noncommissioned Officers (SNCO), and enlisted Marines functioning in both non-supervisory and supervisory billets.

b. Training Concept. Aside from the TC-AIMS II users, a requirement exists to train Marines as TC-AIMS II SAs and DAs. The training concept is to develop a skill progression course for Noncommissioned Officers (NCO) and above, primarily in MOSs (TBD); however, any Commodity User who meets the training profile may attend this course. Development of separate SA and DA courses at each of the commodity schools is not supportable.

9.2.1 Modifying Courses of Instruction. Various courses of instruction at the formal schools (see paragraph 7.2 for course titles) will require assessment and MOS-appropriate modifications to incorporate TC-AIMS II training into entry-level and skill progression level courses. The current TC-AIMS training hours should be used as a baseline when planning TC-AIMS II training requirements. The degree and amount of training will vary among MOSs, and will be task dependent. Those schools not issued TC-AIMS II hardware may be provided a TC-AIMS II tutorial to supplement student instruction and cover the basic functions.

9.2.2 SA and DA Training. Training for SAs and DAs is vastly more detailed and in-depth than that for system users. The number of students for SA and DA courses will also be much smaller than for system users. In order to train and maintain a sufficient number of SAs and DAs, it will be necessary to establish a formal school at MCCSSS to train SAs and DAs as required. Numbers of students and classes to be held are yet TBD. MCCSSS will use materials provided by the contractor, NETT, and instructor experiences from IPK training to develop the required courses of instruction in accordance with the Systems Approach to Training (SAT).

9.2.3 Training the Trainers at Marine Corps Locations. Due to the large number of personnel and high turnover rates, the Marine Corps will employ the "*train the trainer*" concept for system users. This concept will be used for Phase II user training at Marine Corps locations. Students for the Phase II user training will already have the functional background in Embarkation/TMO to use the program. It is envisioned, due to their smaller numbers, that all designated SAs and DAs for a particular location will be trained as a group. The structure and materials used by IKP trainers in Phase II training will be provided to the NETT. The Marine Corps will use these trainers to continue the TC-AIMS II user training at Marine Corps locations.

10. FUNCTIONAL AND TECHNICAL ADMINISTRATION PLAN

10.1 FUNCTIONAL ADMINISTRATION PLAN. Functional administration is managed at the user level. Operation of TC-AIMS II will require that each user in the unit be trained in the procedures for system set-up and teardown, start-up and shutdown, packing and moving the system, basic troubleshooting and database procedures. TC-AIMS II user documentation must be sufficiently detailed to provide the user with enough information to accomplish these tasks.

10.2 TECHNICAL ADMINISTRATION. Technical administration for TC-AIMS II will be a function of the SA. Responsibilities include loading ICP/SCP/JDL updates, administration/ backup and fault diagnosis/recovery (official duties are TBD). The SAs must be trained to recognize system errors or out-of-standard conditions. Accordingly, they can notify help desk personnel of problems and teach users how to determine whether the fault is mechanical (related to a hardware malfunction) or not. When the problem is not mechanical, the SAs should be able to correct basic errors without assistance and will notify the proper organization for assistance with more serious problems. Every TC-AIMS II operational site requires a minimum of two SAs, one primary and one alternate. In some instances, the system user may also be an SA. This is an additional duty, for which there is no specific MOS requirement.

11. TELECOMMUNICATIONS REQUIREMENTS AND CONSIDERATIONS

11.1 GENERAL REQUIREMENTS. Telecommunication facilities currently used to support TC-AIMS operations will accommodate TC-AIMS II. No upgrades are anticipated. Final determination will be made after site surveys are completed at each installation. TC-AIMS II operates optimally in a client-server environment using a distributed database. While it can operate in a standalone mode by passing data via disk transfer, the preferred environment is for TC-AIMS II and its interfacing systems to operate on Local and Wide Area Networks (LAN/WAN). TC-AIMS II will operate on existing LAN/WAN infrastructure. For functions involving Electronic Commerce/Electronic Data Interchange (EDI), TMOs will need access to the commercial Value Added Network via a Government EDI Gateway.

11.2 AVAILABILITY AND ADEQUACY OF LAN. TBD

11.2.1 Backbone. TBD. Defense Information Systems Network (DISN)

11.2.2 SubLAN. TBD

11.2.3 Cable Plant. TBD

11.2.4 Location Connectivity to DISN (NIPERNET and SIPERNET). TBD

11.2.5 AUTODIN and Defense Message System Service. TBD

11.2.6 Availability and Adequacy of Location Model Pool. TBD

11.3 AUTOMATED INFORMATION TECHNOLOGY (AIT). Several modules within TC-AIMS II rely heavily on AIT for updates and maintenance of the database. The main functions supported by AIT are those that relate to ITV initiatives, i.e., using AIT devices to track time, dates and locations where personnel, supplies and equipment are located at any given time. The program also plans to use AIT to enter asset status, dispatch mileage, and support inspections relating to pre-loading activities.

a. Hardware. The Marine Corps AIT equipment used in support of TC-AIMS II will be selected from previously approved equipment. Approved equipment is listed in the following table.

ITEM	TAMCN
Collection Device, Data (PDT 7240)	To Be Assigned
Access Point	To Be Assigned
Printer Portable, Bar Code	To Be Assigned
Printer, Desktop	To Be Assigned
Wireless LAN, Connector	To Be Assigned

b. Software. TBD

11.3.1 Requirements. TBD

11.3.2 Radio Frequencies. The AIT devices that operate with TC-AIMS II are Federal Communications Commission approved and use low power output radio frequency uploads to a host system.

11.3.3 Wire Connected. TBD

11.4 NETWORK OPERATING SYSTEM. The Initial Operational Capability version of TC-AIMS II will be built upon a Windows NT operating environment.

11.5 ELECTRONIC COMMERCE/ELECTRONIC DATA INTERCHANGE. TBD

11.5.1 Express Carriers. TBD

11.5.2 Freight Carriers. TBD

11.5.3 Service EDI Gateways. TBD

12. FACILITIES AND POWER REQUIREMENTS FOR TC-AIMS II USERS

12.1 FACILITIES REQUIREMENTS. Maintenance, storage, personnel and training facilities currently in use to support ITO operations, movement control, and mode operations missions will accommodate TC-AIMS II. No facility upgrades (or new structures) are anticipated. However, final determination will be made during site surveys at each installation.

12.2 POWER REQUIREMENTS. TC-AIMS II hardware will be provided in a configuration to meet the power situation in the operating environment. The use of power converters or uninterruptible power sources is required; they will also be fielded with the system. TC-AIMS II will be able to operate under garrison and field conditions. All TC-AIMS II using units have sufficient power generation capabilities to support automation power requirements. Transition between commercially generated power sources (in-garrison) and field-generated sources will be an organizational/user responsibility. Procurement of fuel for generators is an organizational responsibility.

13. CONCEPTUAL FRAMEWORK FOR MATERIEL RELEASE AND FIELDING DECISION.

Refer to tab 2.

14. MARINE CORPS POPULATIONS BY LOCATION (REGIONAL).

Refer to tab 3.

15. SERVICE ABBREVIATIONS.

Refer to tab 4.

ACRONYMS AND ABBREVIATIONS

ADM	Acquisition Decision Memorandum
AIS	Automated Information System
AIT	Automated Identification Technology
ALE	Air Liaison Element
ATLASS II+	Asset Tracking for Logistics and Supply Systems II+
AUTODIN	Automatic Digital Network
BOG	Beach Operations Group
C2	Command and Control
CAL	Computer Aided Logistics
CD-ROM	Compact Disk-Read Only Memory
CE	Command Element
CLS	Contractor Logistics Support
CONOPS	Concept of Operations
CONUS	Continental United States
COTS	Commercial Off-The-Shelf
CSS	Combat Service Support
DA	Data Administrator
DACG	Departure Airfield Control Group
db	database
DISN	Defense Information System Network
DoD	Department of Defense
DTS	Defense Transportation System
EDI	Electronic Data Interchange
EWTGLANT	Expeditionary Warfare Training Group, Atlantic
FMCC	Force Movement Control Center
FOC	Full Operational Capability
FSSG	Force Service Support Group
FY	Fiscal Year
G-4	Assistant Chief of Staff for Logistics and Supply Staff
GCCS	Global Command and Control System
GPU	General-Purpose User
GTN	Global Transportation Network
IADT	Initial Active Duty Training
ICP	Interim Change Package
IKP	Instructor and Key Personnel
ILS	Integrated Logistics Support

ILSP	Integrated Logistics Support Plan
IS	Information Systems
IT	Information Technology
ITO	Installation Transportation Officer
ITV	In-Transit Visibility
JCS	Joint Chiefs of Staff
JDL	Joint Data Library
JFRG	Joint Force Requirements Generator
JOPES	Joint Operational Planning and Execution System
JPMO	Joint Program Management Office
LAN	Local Area Network
LMCC	Logistics Movement Control Center
LOGAIS	Logistics Automated Information Systems
MAGTF	Marine Air-Ground Task Force
MARCORLOGBASES	Marine Corps Logistics Bases
MARCORSYSCOM	Marine Corps Systems Command
MARFORRES	Marine Forces Reserve
MCB	Marine Corps Base
MCC	Movement Control Center
MCCSSS	Marine Corps Combat Service Support School
MCHS	Marine Corps Common Hardware Suite
MCO	Marine Corps Order
MEF	Marine Expeditionary Force
MOS	Military Occupational Specialty
NAB	Naval Air Base
NCO	Noncommissioned Officer
NDI	Non-developmental Item
NETT	New Equipment Training Team
NIPERNET	Unclassified Internet Protocol Router Network
OccFld	Occupational Field
OCONUS	Outside the Continental United States
OEM	Original Equipment Manufacturer
OMFTS	Operational Maneuver from the Sea
OOTW	Operations Other Than War
PM	Program Manager
POE	Point of Embarkation
POG	Port Operations Group
RSO&I	Reception, Staging, Onward Movement and Integration

S-4	Logistics Staff Officer
SA	System Administrator
SAT	Systems Approach to Training
SCP	Software Change Package
SIPERNET	Secret Internet Protocol Routing Network
SLE	Ship Liaison Element
SNCO	Senior Noncommissioned Officer
TAMCN	Table of Authorized Material Control Number
TBD	To Be Determined
TC-AIMS	Transportation Coordinator's Automated Information for Movement System
TMO	Traffic Management Officer
TPFDD	Time Phased Force Deployment Data
UMCC	Unit Movement Control Center
WAN	Wide Area Network